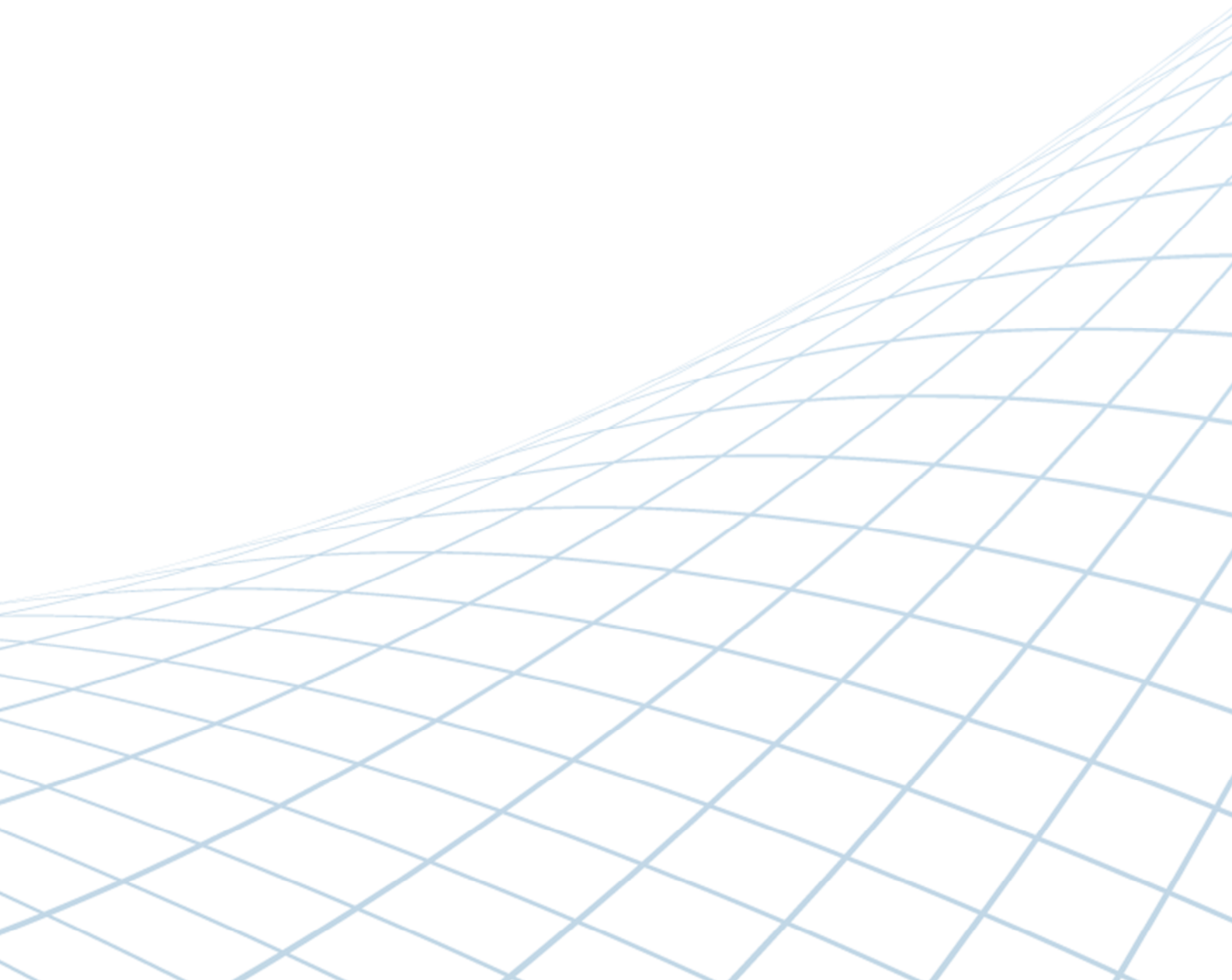


**Milestone Systems**  
**XProtect® Video Management Software**  
**Product Comparison Chart**  
**Valid as of: May 21, 2013**





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## Introduction

As the world's leading provider of open platform IP video management software (VMS), Milestone Systems offers a wider range of VMS products optimized for different types of deployment and usage. This document provides an in-depth comparable outline of Milestone's XProtect VMS products and the associated clients.

The document is intended as a technical sales tool with two primary purposes:

- Provide an overview of the features that each XProtect product provides
- Support the selection of the optimal product by offering a visible comparison between the various products in the XProtect product range

The document presents separate comparison charts for the XProtect VMS platform products and the XProtect clients, where each product category has an overview comparison chart, followed by a more detailed and comprehensive chart.

The following XProtect VMS platform products are covered:

- XProtect® Go
- XProtect® Essential
- XProtect® Express
- XProtect® NVR
- XProtect® Professional
- XProtect® Enterprise
- XProtect® Expert
- XProtect® Corporate

The following XProtect clients are covered:

- XProtect® Smart Client
- XProtect® Web Client
- Milestone Mobile

The document does not cover XProtect add-on products or Milestone Utilities.

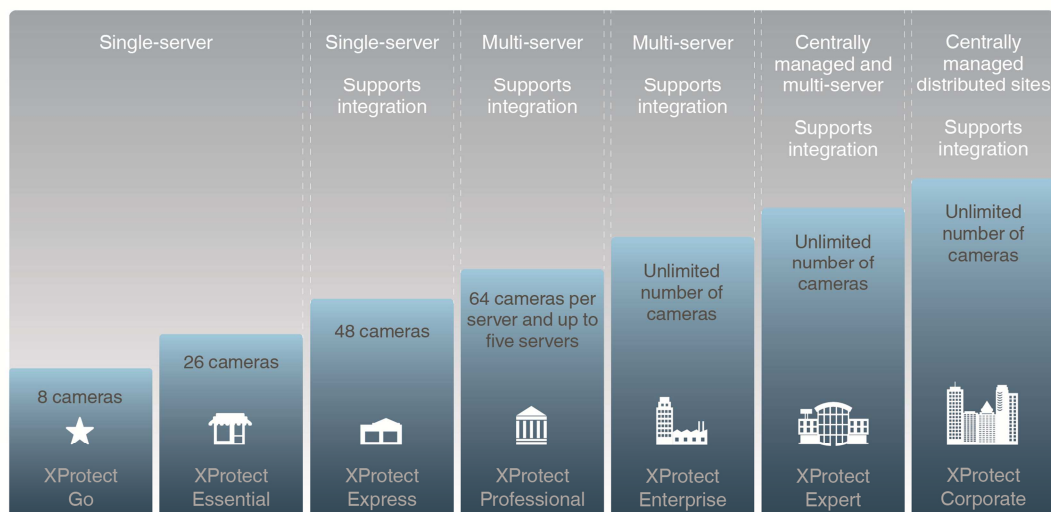
The information in this document only provides basic information. Refer to the individual product specification sheets for a complete listing of all features for a given XProtect product.

Milestone reserves the right to change the product specifications without prior notice.



## XProtect VMS products

Milestone offers the market's widest portfolio of IP VMS solutions spanning from easy-to-use small, single-server solutions to fully scalable advanced solutions for high-security surveillance and alarm centers. All products in the XProtect portfolio are designed based on the same powerful open architecture, which makes the XProtect products compatible with more IP cameras and video encoders than any other VMS manufacturers.



Each of the XProtect VMS products has been optimized to meet the specific needs in the different market segments in terms of:

- Ease of deployment
- Ease of use
- Scalability (number of cameras and single server to fully distributed deployment)
- Functionality level
- Integration of third-party applications



## High-level XProtect VMS product comparison

The table below gives an overview of Milestone's XProtect VMS products and their key capabilities.

XProtect VMS Products/ Version	XProtect Go	XProtect Essential	XProtect Express	XProtect NVR	XProtect Professional	XProtect Enterprise	XProtect Expert	XProtect Corporate
Key Features	2.1	2.1	1.1	2.0	8.1	8.1	2013	2013
Type of deployment	Single-server	Single-server	Single-server	Single-server	Multi-server	Multi-site	Centrally managed and multi-server	Centrally managed and distributed sites
Number of connected cameras	8	26	48	8/16	64 <sup>(1)</sup>	Unlimited <sup>(2)</sup>	Unlimited	Unlimited
Number of supported servers	1	1	1	1	5	Unlimited	Unlimited	Unlimited
Maximum numbers of users	1	5	5	5	Unlimited	Unlimited	Unlimited	Unlimited
Multiple video export formats	No <sup>(4)</sup>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Supports Milestone Mobile	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Supports XProtect Web Client	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Smart Search	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Alarm Manager	-	Yes <sup>(4)</sup>	Yes <sup>(4)</sup>	Yes <sup>(4)</sup>	Yes <sup>(4)</sup>	Yes	Yes	Yes
Third-party application integration <sup>(5)</sup>	-	-	Yes	Yes	Yes	Yes	Yes	Yes
Support for video analytics <sup>(5)</sup>	-	-	Yes	Yes	Yes	Yes	Yes	Yes
Archiving to network storage	-	-	Yes	Yes	Yes	Yes	Yes	Yes
Map function	-	-	-	-	-	Yes	Yes	Yes
Microsoft Active Directory support	-	-	-	-	-	Yes	Yes	Yes
Centralized management	-	-	-	-	-	-	Yes	Yes
Flexible event rule engine	-	-	-	-	-	-	Yes	Yes
Edge Storage	-	-	-	-	-	-	Yes	Yes
Failover Recording Servers	-	-	-	-	-	-	-	Yes
Supports XProtect Smart Wall	-	-	-	-	-	-	-	Yes
Milestone Interconnect™	-	Remote site	Remote site	Remote site	Remote site	Remote site	-	Central site
Milestone Federated Architecture™	-	-	-	-	-	-	Remote site	Central/Remote site

### Notes:

- (1) XProtect Professional supports up to 64 cameras per server and up to five servers
- (2) For most installations larger than 250 cameras, Milestone recommends using XProtect Expert or XProtect Corporate
- (3) Media Player (AVI) format only
- (4) Not full alarm management functionality
- (5) Using Milestone Integration Platform (MIP)



## Detailed XProtect VMS products comparison chart

The table below gives a detailed listing of all major features in the different XProtect VMS products. The features are organized in to categories for increased readability.

XProtect VMS Products	XProtect Go	XProtect Essential	XProtect Express	XProtect NVR	XProtect Professional	XProtect Enterprise	XProtect Expert	XProtect Corporate
Features	2.1	2.1	1.1	2.0	8.1	8.1	2013	2013
<b>System components (software modules)</b>								
Recording Server	✓	✓	✓	✓	✓	✓	✓	✓
Failover Recording Server	-	-	-	-	-	-	-	✓
Hot-standby Failover Recording Server	-	-	-	-	-	-	-	✓
Number of connected cameras	8 <sup>(4)</sup>	26	48	8/16	64 <sup>(1)</sup>	Unlimited <sup>(2)</sup>	Unlimited	Unlimited
Maximum number of recording servers per system	1	1	1	1	5	∞ <sup>(2)</sup>	∞	∞
Maximum number of cameras per Recording Server	8 <sup>(4)</sup>	26	48	8/16	64	64 <sup>(2)</sup>	∞	∞
Recording Server manager	✓	✓	✓	✓	✓	✓	✓	✓
Management Server	-	-	-	-	-	-	✓	✓
Management Failover Server (redundant cluster)	-	-	-	-	-	-	✓	✓
Management Application (local management)	✓	✓	✓	✓	✓	✓	-	-
Management Client (dedicated client application for local or remote management)	-	-	-	-	-	-	✓	✓
Event Server (for handling of events and alarms)	-	✓	✓	✓	✓	✓	✓	✓
Failover Event Server (redundant cluster)	-	-	-	-	-	-	✓	✓
Milestone Mobile (server and client)	✓	✓	✓	✓	✓	✓	✓	✓
XProtect Smart Client	✓	✓	✓	✓	✓	✓	✓	✓
XProtect Web Client	✓	✓	✓	✓	✓	✓	✓	✓
XProtect Smart Client - Player (local playback/export client)	-	✓	✓	✓	✓	✓	✓	✓
<b>Distributed operation</b>								
Milestone Interconnect™	-	Remote site	Remote site	Remote site	Remote site	Remote site	-	Central site
Milestone Federated Architecture™	-	-	-	-	-	-	Remote site	Central/Remote site
Remote camera connection via Remote Connection Service	-	-	-	-	-	-	-	✓
<b>Device support</b>								
Support for ONVIF™ compliant devices	✓	✓	✓	✓	✓	✓	✓	✓
Support for PSIA compliant devices	✓	✓	✓	✓	✓	✓	✓	✓
Generic device support via Milestone universal driver	✓	✓	✓	✓	✓	✓	✓	✓
Number of IP device brands supported via dedicated device integration <sup>(3)</sup>	115	115	115	115	115	115	97	97
Number of supported IP camera models <sup>(3)</sup>	1705	1705	1705	1705	1705	1705	1509	1509
Number of supported video encoder models <sup>(3)</sup>	237	237	237	237	237	237	186	186
Number of dedicated IP input/output models <sup>(3)</sup>	7	7	7	7	7	7	7	7
Number of supported DVRs <sup>(3)</sup>	5	5	5	5	5	5	3	3
Number of supported IP audio devices <sup>(3)</sup>	5	5	5	5	5	5	5	5
Number of supported perimeter detectors <sup>(3)</sup>	18	18	18	18	18	18	18	18
Secure HTTPS camera connectivity (on supported devices)	✓	✓	✓	✓	✓	✓	✓	✓
<b>Video processing</b>								
MJPEG support	✓	✓	✓	✓	✓	✓	✓	✓
MPEG-4 support	✓	✓	✓	✓	✓	✓	✓	✓
MPEG-4 ASP support	✓	✓	✓	✓	✓	✓	✓	✓
MxPEG support	✓	✓	✓	✓	✓	✓	✓	✓
H.264 support	✓	✓	✓	✓	✓	✓	✓	✓
Dual stream (live and recording) per camera	✓	✓	✓	✓	✓	✓	✓	✓
Multi-live streaming	-	-	-	-	-	-	-	✓
Client video stream down sampling (resolution and FPS) option	✓	✓	✓	✓	✓	✓	✓	✓
Adjustable GOP size (MPEG4/H.264)	-	-	-	-	-	-	✓	✓
Browse DVR recordings	-	-	-	-	-	✓	-	-



XProtect VMS Products	XProtect Go	XProtect Essential	XProtect Express	XProtect NVR	XProtect Professional	XProtect Enterprise	XProtect Expert	XProtect Corporate
Features	2.1	2.1	1.1	2.0	8.1	8.1	2013	2013
Edge Storage support with flexible retrieval	-	-	-	-	-	-	✓	✓
Send camera pre-alarm images to recording server	✓	✓	✓	✓	✓	✓	✓	✓
Video recording speed up on <i>motion, event</i> or <i>time schedule</i>	-	✓	✓	✓	✓	✓	✓	✓
Built-in Video Motion Detection (VMD)	✓	✓	✓	✓	✓	✓	✓	✓
VMD exclusion zones	✓	✓	✓	✓	✓	✓	✓	✓
Video motion detections per server	All connected cameras							
<b>Audio</b>								
One-way audio support	✓	✓	✓	✓	✓	✓	✓	✓
Two-way audio support	-	-	-	-	✓	✓	✓	✓
One-way audio recording	✓	✓	✓	✓	✓	✓	✓	✓
Two-way audio recording	-	-	-	-	-	-	✓	✓
Maximum number of supported audio channels	8	26	48	8/16	64	Unlimited	Unlimited	Unlimited
<b>Pan-tilt-zoom (PTZ)</b>								
Preset positions per camera	25	25	25	25	50	50	Unlimited	Unlimited
Go-to preset on event	✓	✓	✓	✓	✓	✓	✓	✓
Preset patrolling	-	-	✓	✓	✓	✓	✓	✓
Combine patrolling and go-to preset on event	-	-	-	-	✓	✓	✓	✓
Scanning/transition speed	-	-	-	-	✓	✓	✓	✓
Number of PTZ priority levels for prioritized PTZ control	-	-	-	-	1	1	32,000	32,000
<b>I/O and events</b>								
Hardware configurable events (such as I/O input, motion, tampering, temperature, communication failure)	✓	✓	✓	✓	✓	✓	✓	✓
Motion detection events (VMD in XProtect Recording Server)	✓	✓	✓	✓	✓	✓	✓	✓
System error events (for example disk full)	✓	✓	✓	✓	✓	✓	✓	✓
Manual events	✓	✓	✓	✓	✓	✓	-	-
User defined events	-	-	-	-	-	-	✓	✓
Generic events from external systems	-	-	-	-	✓	✓	✓	✓
Event-based device configuration	-	-	-	-	-	-	✓	✓
Event-based notification	✓	✓	✓	✓	✓	✓	✓	✓
Event-based output control	✓	✓	✓	✓	✓	✓	✓	✓
Event-based device start/stop	✓	✓	✓	✓	✓	✓	✓	✓
Event-based matrix control	-	-	-	-	✓	✓	✓	✓
Flexible event rule engine for definition of actions on events	-	-	-	-	-	-	✓	✓
<b>Bookmark function</b>								
Manual bookmarking (quick bookmarking and bookmarking with details)	-	-	-	-	-	-	✓	✓
Rule-based bookmarking	-	-	-	-	-	-	-	✓
<b>Alarm Manager</b>								
Alarm description and work instructions	-	-	-	-	-	✓	✓	✓
Ability to assign initial owner of an alarm	-	-	-	-	-	✓	✓	✓
Time profiles for alarms	-	-	-	-	-	-	✓	✓
View triggered alarms	-	✓	✓	✓	✓	✓	✓	✓
Manage alarms (reassign, change status, comment)	-	-	-	-	-	✓	✓	✓
Maximum number of related cameras in alarm preview window	-	-	-	-	-	15	15	15
Number of alarm priority levels	-	32,000	32,000	32,000	32,000	32,000	32,000	32,000
Customizable alarm priority levels	-	✓	✓	✓	✓	✓	✓	✓
Customizable sound notification	-	-	-	-	-	✓	✓	✓
Customizable alarm categories	-	✓	✓	✓	✓	✓	✓	✓
Customizable alarm statuses	-	-	-	-	-	✓	✓	✓
Customizable alarm result codes	-	-	-	-	-	✓	✓	✓
Alarm handling reporting	-	-	-	-	-	✓	✓	✓
Alarm logging	-	✓	✓	✓	✓	✓	✓	✓
Redundancy option for high availability	-	-	-	-	-	✓	✓	✓



XProtect VMS Products	XProtect Go	XProtect Essential	XProtect Express	XProtect NVR	XProtect Professional	XProtect Enterprise	XProtect Expert	XProtect Corporate
Features	2.1	2.1	1.1	2.0	8.1	8.1	2013	2013
<b>Storage and archiving</b>								
Video retention time	Max. 5 days	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited
Recording capacity per device/day	>1 TB <sup>(5)</sup>	>1 TB <sup>(5)</sup>	>1 TB <sup>(5)</sup>	>1 TB <sup>(5)</sup>	>1 TB <sup>(5)</sup>	>1 TB <sup>(5)</sup>	Unlimited	Unlimited
Archiving of recordings	✓	✓	✓	✓	✓	✓	✓	✓
Archiving to network drives	-	-	✓	✓	✓	✓	✓	✓
Dynamic archiving (disk spanning)	✓	✓	✓	✓	✓	✓	-	-
Online access to archives	✓	✓	✓	✓	✓	✓	✓	✓
Archiving schedules	Hourly	Hourly	Hourly	Hourly	Hourly	Hourly	Hourly	Hourly
Storage definition and retention time per device	✓	✓	✓	✓	✓	✓	✓	✓
Storage definition and retention time that can be applied to individual cameras or common for multiple devices	-	-	-	-	-	-	✓	✓
Multi-stage video storage and data grooming	-	-	-	-	-	-	-	✓
Storage overview (used vs. available space) of available storage drives	✓	✓	✓	✓	✓	✓	✓	✓
Video data encryption	-	-	-	-	-	-	-	✓
Digital video database signing	-	-	-	-	-	-	-	✓
<b>Integration</b>								
Video content analysis support (via add-on or Milestone Solution Partner product)	-	-	✓	✓	✓	✓	✓	✓
XProtect Smart Client plug-in support	-	-	✓	✓	✓	✓	✓	✓
Milestone Integration Platform SDK	-	-	✓	✓	✓	✓	✓	✓
User defined events via TCP/IP	-	-	-	-	-	-	✓	✓
Generic events via TCP/IP	-	-	-	-	✓	✓	✓	✓
<b>Management</b>								
Configuration wizards for aided system setup	✓	✓	✓	✓	✓	✓	✓	✓
Automatic device scanning with device model detection	✓	✓	✓	✓	✓	✓	✓	✓
Device replacement wizard	✓	✓	✓	✓	✓	✓	✓	✓
Centralized device management	-	-	-	-	-	-	✓	✓
Device group support	-	-	-	-	-	-	✓	✓
Centralized recording server management	-	-	-	-	-	-	✓	✓
Centralized user management	-	-	-	-	-	-	✓	✓
Centralized management of XProtect Smart Client application options (XProtect Smart Client profiles)	-	-	-	-	-	-	✓	✓
System Monitor	-	-	-	-	-	-	✓	✓
Time schedule controlled user access to devices and functions	-	-	-	-	-	-	✓	✓
Day length time profile	-	-	-	-	-	-	✓	✓
On-the-fly configuration changes	-	-	-	-	-	-	✓	✓
Run servers as Windows Services	✓	✓	✓	✓	✓	✓	✓	✓
Scheduled start/stop of devices	✓	✓	✓	✓	✓	✓	✓	✓
Configuration reporting	-	-	-	-	-	-	✓	✓
System configuration restore points	✓	✓	✓	✓	✓	✓	-	-
Export and import of configuration data	✓	✓	✓	✓	✓	✓	-	-
Built-in backup-restore support	-	-	-	-	-	-	✓	✓
Online activation	-	✓	✓	✓	✓	✓	✓	✓
Offline activation	-	✓	✓	-	✓	✓	✓	✓
<b>Viewing clients</b>								
Maximum number of clients	1	5	5	5	Unlimited	Unlimited	Unlimited	Unlimited
Customizable access port with NAT support	✓	✓	✓	✓	✓	✓	✓	✓
Multicast support	-	-	-	-	-	-	✓	✓
Basic User (XProtect application accounts)	✓	✓	✓	✓	✓	✓	✓	✓
Windows User (local Windows accounts)	✓	✓	✓	✓	✓	✓	✓	✓
Microsoft Active Directory User (central Active Directory accounts)	-	-	-	-	-	✓	✓	✓
Single step installer	✓	✓	✓	✓	✓	✓	✓	✓





XProtect VMS Products	XProtect Go	XProtect Essential	XProtect Express	XProtect NVR	XProtect Professional	XProtect Enterprise	XProtect Expert	XProtect Corporate
Features	2.1	2.1	1.1	2.0	8.1	8.1	2013	2013
(installs XProtect Smart Client together with server)								
<b>XProtect® Smart Wall application add-on<sup>(6)</sup></b>								
Supports XProtect Smart Wall video wall add-on	-	-	-	-	-	-	-	✓
Number of XProtect Smart Walls and XProtect Smart Wall displays	-	-	-	-	-	-	-	Unlimited
Number of concurrent video streams	-	-	-	-	-	-	-	Unlimited
Maximum number of video streams per display	-	-	-	-	-	-	-	100
Presets for display layouts and camera content	-	-	-	-	-	-	-	✓
Rule-based control of layout and content	-	-	-	-	-	-	-	✓
<b>Alarms and notification</b>								
Email notification	✓	✓	✓	✓	✓	✓	✓	✓
SMS notification	-	-	-	-	✓	✓	-	-
Multiple notification profiles	-	-	-	-	-	-	✓	✓
SNMP trap	-	-	-	-	-	-	✓	✓
System Watch support	✓	✓	✓	✓	✓	✓	-	-
<b>Logging</b>								
System logging	✓	✓	✓	✓	✓	✓	✓	✓
Event logging	✓	✓	✓	✓	✓	✓	✓	✓
Audit logging	✓	✓	✓	✓	✓	✓	✓	✓
Rule logging	-	-	-	-	-	-	✓	✓
<b>Languages (Management Interface)</b>								
Chinese (Simplified)	✓ <sup>(7)</sup>	✓ <sup>(7)</sup>	✓ <sup>(7)</sup>	✓ <sup>(7)</sup>	✓ <sup>(7)</sup>	✓ <sup>(7)</sup>	✓ <sup>(8)</sup>	✓ <sup>(8)</sup>
Chinese (Traditional)	✓ <sup>(7)</sup>	✓ <sup>(7)</sup>	✓ <sup>(7)</sup>	✓ <sup>(7)</sup>	✓ <sup>(7)</sup>	✓ <sup>(7)</sup>	✓ <sup>(8)</sup>	✓ <sup>(8)</sup>
Danish	✓ <sup>(7)</sup>	✓ <sup>(7)</sup>	✓ <sup>(7)</sup>	✓ <sup>(7)</sup>	✓ <sup>(7)</sup>	✓ <sup>(7)</sup>	✓ <sup>(8)</sup>	✓ <sup>(8)</sup>
English	✓	✓	✓	✓	✓	✓	✓	✓
French	✓ <sup>(7)</sup>	✓ <sup>(7)</sup>	✓ <sup>(7)</sup>	✓ <sup>(7)</sup>	✓ <sup>(7)</sup>	✓ <sup>(7)</sup>	✓ <sup>(8)</sup>	✓ <sup>(8)</sup>
German	✓ <sup>(7)</sup>	✓ <sup>(7)</sup>	✓ <sup>(7)</sup>	✓ <sup>(7)</sup>	✓ <sup>(7)</sup>	✓ <sup>(7)</sup>	✓ <sup>(8)</sup>	✓ <sup>(8)</sup>
Italian	✓ <sup>(7)</sup>	✓ <sup>(7)</sup>	✓ <sup>(7)</sup>	✓ <sup>(7)</sup>	✓ <sup>(7)</sup>	✓ <sup>(7)</sup>	✓ <sup>(8)</sup>	✓ <sup>(8)</sup>
Japanese	✓ <sup>(7)</sup>	✓ <sup>(7)</sup>	✓ <sup>(7)</sup>	✓ <sup>(7)</sup>	✓ <sup>(7)</sup>	✓ <sup>(7)</sup>	✓ <sup>(8)</sup>	✓ <sup>(8)</sup>
Portuguese (Brazilian)	✓ <sup>(7)</sup>	✓ <sup>(7)</sup>	✓ <sup>(7)</sup>	✓ <sup>(7)</sup>	✓ <sup>(7)</sup>	✓ <sup>(7)</sup>	✓ <sup>(8)</sup>	✓ <sup>(8)</sup>
Russian	✓ <sup>(7)</sup>	✓ <sup>(7)</sup>	✓ <sup>(7)</sup>	✓ <sup>(7)</sup>	✓ <sup>(7)</sup>	✓ <sup>(7)</sup>	✓ <sup>(8)</sup>	✓ <sup>(8)</sup>
Spanish	✓ <sup>(7)</sup>	✓ <sup>(7)</sup>	✓ <sup>(7)</sup>	✓ <sup>(7)</sup>	✓ <sup>(7)</sup>	✓ <sup>(7)</sup>	✓ <sup>(8)</sup>	✓ <sup>(8)</sup>

#### Notes:

- (1) XProtect Professional supports up to 64 cameras per server and up to five servers
- (2) For most installations larger than 250 cameras, Milestone recommends using XProtect Enterprise, XProtect Expert or XProtect Corporate
- (3) Supported via dedicated device integration. The figure does not include different device variations in vendor's device series and non-listed OEM devices, or devices that are supported via ONVIF and PSIA drivers and Milestone's universal driver. Information is based on the support in Device Pack 6.6. Please refer to Milestone's website ([www.milestonesys.com](http://www.milestonesys.com)) for latest figures  
Includes various devices in series and non-listed OEM devices.
- (4) No more than four USB cameras can be added
- (5) Actual effective storage available will vary dependent on the stored video format and resolution
- (6) XProtect Smart Wall subject to separate application license
- (7) Help system and in English only
- (8) Installation and user interface. Help system and in English only



## Clients for XProtect VMS products

For easy access to video surveillance, Milestone offers three flexible user interfaces: XProtect Smart Client, XProtect Web Client and Milestone Mobile. Compatible with all XProtect VMS products, the clients enable users to access live and recorded video to gain real-time situational awareness and investigate incidents. XProtect clients share common design and basic functionalities so users can seamlessly switch between the interfaces as needs require.

XProtect Smart Client is the primary user interface for security operators and other daily users. Its adaptable user interface provides both basic and advanced users with an interface optimized for their particular tasks. XProtect Web Client provides flexible access to video surveillance from any browser and can be used as the simplified daily viewing client for users with basic needs. Users can access surveillance on-the-go with Milestone Mobile, an application for viewing, playing back and exporting video from smartphones and tablets. Available for download on the App Store<sup>SM</sup> and Google Play<sup>TM</sup>, the application gives instantaneous access to XProtect systems via Wi-Fi, 3G or 4G connections.

### High level XProtect client comparison

The table below gives an overview of the different XProtect clients that can be used together with Milestone's XProtect VMS products.

XProtect client/ Version	Milestone Mobile	XProtect Web Client	XProtect Smart Client
Key Features	2013	2013	2013
User platform	Smartphones and tablets	Web browsers	Windows PC
User mobility	High	Medium	Low
Installation required	Yes	No	Yes
User authentication	Yes	Yes	Yes
Secure (HTTPS) client-server connection	Yes	Yes	-
View live video	Yes	Yes	Yes
Control PTZ cameras	Yes	Yes	Yes
Advanced PTZ camera control	-	-	Yes
Alarm handling	-	-	Yes
Interactive maps	-	-	Yes
Trigger I/O events	Yes	Yes	Yes
Playback	Yes	Yes	Yes
Sequence Explorer	-	-	Yes
Advanced video search (Smart Search)	-	-	Yes
Export/share video from one camera	Yes	Yes	Yes
Export video from multiple cameras	-	-	Yes
Include XProtect Smart Client – Player in export	-	-	Yes
Video Push	Yes	-	-
Dynamic bandwidth adaptation	Yes	Yes	-



## Detailed XProtect client comparison

This section provides a detailed comparison between the different XProtect clients, both in relation to each other, and the particular XProtect VMS platforms. The latter is important because some functionality and support of the clients are determined by the specific XProtect product or product version. The features are organized into categories for increased readability.

XProtect Client	Milestone Mobile								XProtect Web Client								XProtect Smart Client							
Current client version	2013 <sup>(1)</sup>	2013 <sup>(1)</sup>	2013 <sup>(1)</sup>	2013 <sup>(1)</sup>	2013 <sup>(1)</sup>	2013 <sup>(1)</sup>	2013	2013	2013 <sup>(1)</sup>	2013 <sup>(1)</sup>	2013 <sup>(1)</sup>	2013 <sup>(1)</sup>	2013 <sup>(1)</sup>	2013 <sup>(1)</sup>	2013	2013	7.0	7.0	7.0	7.0	7.0	7.0	2013	2013
Feature set when used with specific XProtect VMS platform	XProtect Go	XProtect Essential	XProtect Express	XProtect NVR	XProtect Professional	XProtect Enterprise	XProtect Expert	XProtect Corporate	XProtect Go	XProtect Essential	XProtect Express	XProtect NVR	XProtect Professional	XProtect Enterprise	XProtect Expert	XProtect Corporate	XProtect Go	XProtect Essential	XProtect Express	XProtect NVR	XProtect Professional	XProtect Enterprise	XProtect Expert	XProtect Corporate
<b>General view handling</b>																								
Number of view layouts				2								2									39			
Maximum view Items per view				100								100									100			
Optimized view layouts for 4:3 and 16:9 display ratios				-								-									✓			
Corridor optimized view layouts				-								-									✓			
Optimized view layouts for landscape and portrait displays				✓								-									✓			
Cameras from multiple XProtect servers	-					✓			-				✓				-					✓		
Support for <i>Shared Views</i> and <i>Private Views</i>				✓								✓									✓			
XProtect Smart Wall views <sup>(1)</sup>				-								-								-				✓
Images in views				-								-									✓			
Active HTML pages in views				-								-									✓			
Hotspot in views				-								-									✓			
Carousel in views (controllable)				-								-									✓			
Virtual Matrix in views				-								-									✓			
Full screen mode				✓								✓									✓			
Display views as floating window				-								-					-					✓		
Display views on multiple monitors				-								-					-					✓		
Advanced multi window support with synchronized or independent operation				-								-							-					✓
Switch to view by number				-								-							-					✓
Initial default view				✓								✓					✓			-				
Camera Navigator				-								-							-					✓
Automatic restore views and windows at login				✓								✓									✓			
<b>Live view</b>																								
Update on motion only				-								-									✓			
One-way audio support				-								-									✓			
Two-way audio support				-								-							-				✓	
Start recording in view				-								-							✓					-
Independent playback in live mode				-								-									✓			
Replace cameras in view without changing view setup				-								-									✓			
Send camera to Virtual Matrix				-								-							-					✓
Share video image				Via locally installed communication applications (such as email)								-							Copy to clipboard			Print, copy to clipboard and save to file		
Switch to camera by number				-								-									✓			



XProtect Client	Milestone Mobile								XProtect Web Client								XProtect Smart Client							
Current client version	2013 <sup>(1)</sup>	2013 <sup>(1)</sup>	2013 <sup>(1)</sup>	2013 <sup>(1)</sup>	2013 <sup>(1)</sup>	2013 <sup>(1)</sup>	2013	2013	2013 <sup>(1)</sup>	2013 <sup>(1)</sup>	2013 <sup>(1)</sup>	2013 <sup>(1)</sup>	2013 <sup>(1)</sup>	2013 <sup>(1)</sup>	2013	2013	7.0	7.0	7.0	7.0	7.0	7.0	2013	2013
Feature set when used with specific XProtect VMS platform	XProtect Go	XProtect Essential	XProtect Express	XProtect NVR	XProtect Professional	XProtect Enterprise	XProtect Expert	XProtect Corporate	XProtect Go	XProtect Essential	XProtect Express	XProtect NVR	XProtect Professional	XProtect Enterprise	XProtect Expert	XProtect Corporate	XProtect Go	XProtect Essential	XProtect Express	XProtect NVR	XProtect Professional	XProtect Enterprise	XProtect Expert	XProtect Corporate
<b>PTZ support</b>																								
Go to preset positions				✓								✓								✓				
Pause patrolling at manual operation	-			✓					-			✓					-			✓				
Grandeye 360° Quad View				-								-								✓				
Immersion Enables® panomorph lens support				-								-								✓				
Joystick support				-								-								✓				
Assign commands to keyboard shortcuts and joystick buttons				-								-								✓				
Auxiliary commands (wash and wipe)				-								-								✓				
<b>I/O and events control</b>																								
Camera overlay buttons				-								-								✓				
Manually activate events and trigger outputs				✓								✓								✓				
<b>Playback</b>																								
Maximum view items per view				1								1 <sup>(3)</sup>								100				
Recording search				✓								✓								✓				
Recent history of recording sequences per camera				✓								-								-				
Time/date search				✓								✓								✓				
Smart Search				-								-					-			✓				
Independent playback in playback mode				-								-								✓				
Event/alert list in recording				-								-								✓				
Graphical timeline				-								-								✓				
Adjust playback speed				✓								✓								✓				
Single frame step (forward/backward)				✓								✓								✓				
One-way audio support				-								-								✓				
Two-way audio support				-								-							-				✓	
Digital zoom				✓								✓								✓				
Share video image	Via locally installed communication applications (such as email)								Single JPG image export								Copy to clipboard				Print, copy to clip-board and save to file			
Print report with comments				-								-								✓				
Privacy masking				✓								✓								✓				
<b>Sequence Explorer</b>																								
Listing of sequences				-								-								✓				
Listing of time intervals				-								-								✓				
Listing of bookmarks				-								-							-				✓	
Dedicated Sequence Explorer tab that can be displayed as floating window				-								-								✓				
<b>Bookmark function</b>																								
Manual bookmarking (quick bookmarking and bookmarking with details)				-								-							-				✓	
Instant preview of bookmarks in timeline				-								-							-				✓	
Listing and previewing of bookmarks in recording search				-								-							-				✓	
Print bookmark report				-								-							-				✓	
Direct video export of bookmark				-								-							-				✓	



XProtect Client	Milestone Mobile								XProtect Web Client								XProtect Smart Client							
Current client version	2013 <sup>(1)</sup>	2013 <sup>(1)</sup>	2013 <sup>(1)</sup>	2013 <sup>(1)</sup>	2013 <sup>(1)</sup>	2013 <sup>(1)</sup>	2013	2013	2013 <sup>(1)</sup>	2013 <sup>(1)</sup>	2013 <sup>(1)</sup>	2013 <sup>(1)</sup>	2013 <sup>(1)</sup>	2013 <sup>(1)</sup>	2013	2013	7.0	7.0	7.0	7.0	7.0	7.0	2013	2013
Feature set when used with specific XProtect VMS platform	XProtect Go	XProtect Essential	XProtect Express	XProtect NVR	XProtect Professional	XProtect Enterprise	XProtect Expert	XProtect Corporate	XProtect Go	XProtect Essential	XProtect Express	XProtect NVR	XProtect Professional	XProtect Enterprise	XProtect Expert	XProtect Corporate	XProtect Go	XProtect Essential	XProtect Express	XProtect NVR	XProtect Professional	XProtect Enterprise	XProtect Expert	XProtect Corporate
<b>Alarm Manager</b>																								
Alarm list and alarm preview view items in normal camera views				-								-					-				✓			
Extensive sort and filtering functions				-								-					-				✓			
Instant preview of primary and related cameras				-								-					-				✓			
Manage alarms (reassign, change status, comment)				-								-						-					✓	
Integration with map function				-								-						-					✓	
Alarm description/work instructions				-								-						-					✓	
Escalation and forwarding handling				-								-						-					✓	
Print alarm report				-								-						-					✓	
Alarm location maps in alarm list				-								-						-					✓	
Combined access to live and playback video				-								-						-					✓	
Audio notification at new alarm (configurable per priority level)				-								-						-					✓	
Alarm handling reporting				-								-						-					✓	
Dedicated Alarm Manager tab that can be displayed as floating window				-								-						-					✓	
<b>Map function</b>																								
Standard graphical file formats supported for maps				-								-						-					✓	
Number of linked map layers supported				-								-						-					∞	
Video preview				-								-						-					✓	
Integrated control of speakers, microphones and I/O devices				-								-						-					✓	
Drag-and-drop and point-and-click definition of system components and hot zones				-								-						-					✓	
Integrated PTZ control				-								-						-					✓	
Real-time system integrity overview and system performance				-								-						-					✓	
<b>XProtect Smart Wall support <sup>(1)</sup></b>																								
User control of layout and content				-								-						-					✓	
Local subscription to XProtect Smart Wall views for local display				-								-						-					✓	
<b>Export</b>																								
Export in still image format (JPEG)				✓								✓					-				✓			
Export in media player format (AVI)				✓								✓					✓ <sup>(4)</sup>				✓			
Export with audio in media player format (AVI)				-								-									✓			
Export in XProtect format				-								-					-				✓			
Server side export				✓								✓									-			
Encrypted export with password <sup>(5)</sup>				-								-					-				✓			
Digital signing of exported video <sup>(5)</sup>				-								-					-				✓			
Re-export prevention <sup>(5)</sup>				-								-					-				✓			
Auto-export of XProtect Smart Client – Player <sup>(5)</sup>				-								-					-				✓			
Preserve system defined privacy masks				✓								✓									✓			
Additional export specific privacy masks				-								-					-				✓			
Direct export to optical media				-								-					✓		-			✓		
Flexible camera selection for export				-								-					✓		-			✓		



XProtect Client	Milestone Mobile								XProtect Web Client								XProtect Smart Client							
Current client version	2013 <sup>(1)</sup>	2013 <sup>(1)</sup>	2013 <sup>(1)</sup>	2013 <sup>(1)</sup>	2013 <sup>(1)</sup>	2013 <sup>(1)</sup>	2013	2013	2013 <sup>(1)</sup>	2013 <sup>(1)</sup>	2013 <sup>(1)</sup>	2013 <sup>(1)</sup>	2013 <sup>(1)</sup>	2013 <sup>(1)</sup>	2013	2013	7.0	7.0	7.0	7.0	7.0	7.0	2013	2013
Feature set when used with specific XProtect VMS platform	XProtect Go	XProtect Essential	XProtect Express	XProtect NVR	XProtect Professional	XProtect Enterprise	XProtect Expert	XProtect Corporate	XProtect Go	XProtect Essential	XProtect Express	XProtect NVR	XProtect Professional	XProtect Enterprise	XProtect Expert	XProtect Corporate	XProtect Go	XProtect Essential	XProtect Express	XProtect NVR	XProtect Professional	XProtect Enterprise	XProtect Expert	XProtect Corporate
Bulk export to multiple media formats				-								-					-	✓		-		✓		
General and camera specific export comments <sup>(5)</sup>				-								-					-	✓		-		✓		
Pre/post comment slides (media player format only)				-								-					✓			-		✓		
Verification of digital video signatures in XProtect Smart Client – Player <sup>(5)</sup>				-								-					-	✓		-		✓		
<b>Video Push</b>																								
Video Push				✓								-								-				
<b>System Monitoring</b>																								
Real-time and historical system status of Management Server				-								-							-				✓	
Real-time and historical system status of Recording Servers				-								-							-				✓	
Real-time and historical system status of other XProtect servers				-								-							-				✓	
Real-time and historical system status of individual cameras				-								-							-				✓	
Dedicated System Monitor tab that can be displayed as floating window				-								-							-				✓	
<b>Installation</b>																								
Run without installation				-								✓							-					
Single step installer (installs client together with server)				-								-							✓					
Initial and update installations from Management Server <sup>(6)</sup>				-								-							✓					
Notify about new updates				✓								-							✓					
Interactive splash screens				-								✓					✓		-					
<b>System access</b>																								
Auto-login				✓								-							✓					
Secure (HTTPS) client-server connection				✓								✓							-					
Dynamic bandwidth adaptation				✓								✓							-					
<b>Authorization</b>																								
Restrict user access by devices (cameras, microphones, I/O devices, etc.)				✓								✓							✓					
Time schedule controlled user access to devices and functions			-				✓				-				✓				-				✓	
Restrict access to live view				✓								✓							✓					
Restrict access to PTZ				✓								✓							✓					
Restrict access to playback				✓								✓							✓					
Restrict access to export				✓								✓							✓					
Restrict access to setup				-								-							✓					
<b>Personalization</b>																								
Application options				✓								-							✓					
Centralized management of application options				✓								✓							-				✓	
Application theme support				-								-							✓					
Task oriented tabs				-								-							✓					
<b>Languages (Installation, UI and help function)</b>																								
Arabic				✓ <sup>(8)</sup>								✓ <sup>(8)</sup>							✓ <sup>(7)</sup>				✓	
Bulgarian				✓ <sup>(8)</sup>								✓ <sup>(8)</sup>							✓ <sup>(7),(9)</sup>				✓ <sup>(9)</sup>	
Chinese (Simplified)				✓ <sup>(8)</sup>								✓ <sup>(8)</sup>							✓					



XProtect Client	Milestone Mobile								XProtect Web Client								XProtect Smart Client							
Current client version	2013 <sup>(1)</sup>	2013 <sup>(1)</sup>	2013 <sup>(1)</sup>	2013 <sup>(1)</sup>	2013 <sup>(1)</sup>	2013 <sup>(1)</sup>	2013	2013	2013 <sup>(1)</sup>	2013 <sup>(1)</sup>	2013 <sup>(1)</sup>	2013 <sup>(1)</sup>	2013 <sup>(1)</sup>	2013 <sup>(1)</sup>	2013	2013	7.0	7.0	7.0	7.0	7.0	7.0	2013	2013
Feature set when used with specific XProtect VMS platform	XProtect Go	XProtect Essential	XProtect Express	XProtect NVR	XProtect Professional	XProtect Enterprise	XProtect Expert	XProtect Corporate	XProtect Go	XProtect Essential	XProtect Express	XProtect NVR	XProtect Professional	XProtect Enterprise	XProtect Expert	XProtect Corporate	XProtect Go	XProtect Essential	XProtect Express	XProtect NVR	XProtect Professional	XProtect Enterprise	XProtect Expert	XProtect Corporate
Chinese (Traditional)				✓ <sup>(8)</sup>								✓ <sup>(8)</sup>							✓ <sup>(7)</sup>				✓	
Czech				✓ <sup>(8)</sup>								✓ <sup>(8)</sup>							✓ <sup>(7)</sup>				✓	
Danish				✓ <sup>(8)</sup>								✓ <sup>(8)</sup>									✓			
Dutch				✓ <sup>(8)</sup>								✓ <sup>(8)</sup>							✓ <sup>(7)</sup>				✓	
English				✓								✓									✓			
Finnish				✓ <sup>(8)</sup>								✓ <sup>(8)</sup>							✓ <sup>(7),(9)</sup>				✓ <sup>(9)</sup>	
French				✓ <sup>(8)</sup>								✓ <sup>(8)</sup>									✓			
German				✓ <sup>(8)</sup>								✓ <sup>(8)</sup>									✓			
Hebrew				✓ <sup>(8)</sup>								✓ <sup>(8)</sup>							✓ <sup>(7),(9)</sup>				✓ <sup>(9)</sup>	
Hindi				✓ <sup>(8)</sup>								✓ <sup>(8)</sup>							✓ <sup>(7),(9)</sup>				✓ <sup>(9)</sup>	
Hungarian				✓ <sup>(8)</sup>								✓ <sup>(8)</sup>							✓ <sup>(7),(9)</sup>				✓ <sup>(9)</sup>	
Italian				✓ <sup>(8)</sup>								✓ <sup>(8)</sup>									✓			
Japanese				✓ <sup>(8)</sup>								✓ <sup>(8)</sup>									✓			
Korean				✓ <sup>(8)</sup>								✓ <sup>(8)</sup>							✓ <sup>(7)</sup>				✓	
Norwegian (Bokmål)				✓ <sup>(8)</sup>								✓ <sup>(8)</sup>							✓ <sup>(7),(9)</sup>				✓ <sup>(9)</sup>	
Polish				✓ <sup>(8)</sup>								✓ <sup>(8)</sup>							✓ <sup>(7)</sup>				✓	
Portuguese (Brazilian)				✓ <sup>(8)</sup>								✓ <sup>(8)</sup>							✓ <sup>(7)</sup>				✓	
Russian				✓ <sup>(8)</sup>								✓ <sup>(8)</sup>							✓ <sup>(7)</sup>				✓	
Slovakian				✓ <sup>(8)</sup>								✓ <sup>(8)</sup>							✓ <sup>(7),(9)</sup>				✓ <sup>(9)</sup>	
Spanish				✓ <sup>(8)</sup>								✓ <sup>(8)</sup>									✓			
Swedish				✓ <sup>(8)</sup>								✓ <sup>(8)</sup>							✓ <sup>(7)</sup>				✓	
Thai				✓ <sup>(8)</sup>								✓ <sup>(8)</sup>							✓ <sup>(7),(9)</sup>				✓ <sup>(9)</sup>	
Turkish				✓ <sup>(8)</sup>								✓ <sup>(8)</sup>							✓ <sup>(7)</sup>				✓	

## Notes:

- (1) Subject to separate upgrade to Milestone server 2.5
- (2) XProtect Smart Wall subject to separate application license
- (3) One camera available as main view item, additional view items available as thumbnails
- (4) Exported AVI files have Milestone logo watermark.
- (5) Feature only applicable to exports in XProtect format
- (6) Image Server in XProtect Go, XProtect Essential, XProtect Express, XProtect Professional and XProtect Enterprise
- (7) Language not included in single step installer, but only available as add-on installation
- (8) Milestone Mobile server localized to same languages as the management interface and documentation is only available in English
- (9) Only user interface is localized; user's manual and online help is not localized